Modified Water Deliveries Project

Project Cooperation Agreement Amendment 2 Tamiami Trail Bridge

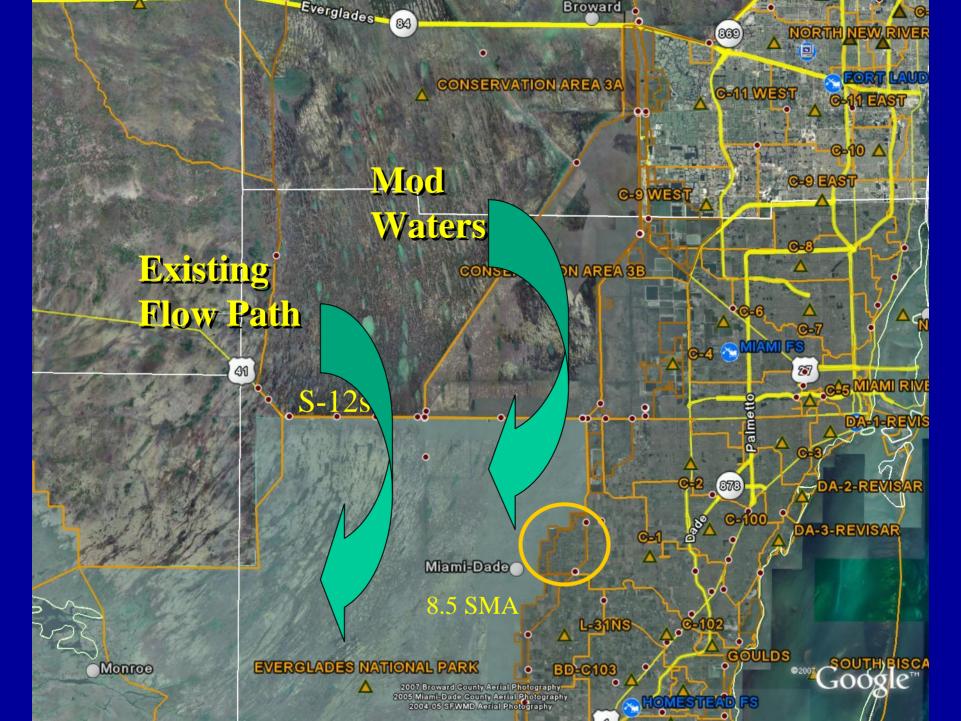
June 12, 2008

Discussion Agenda

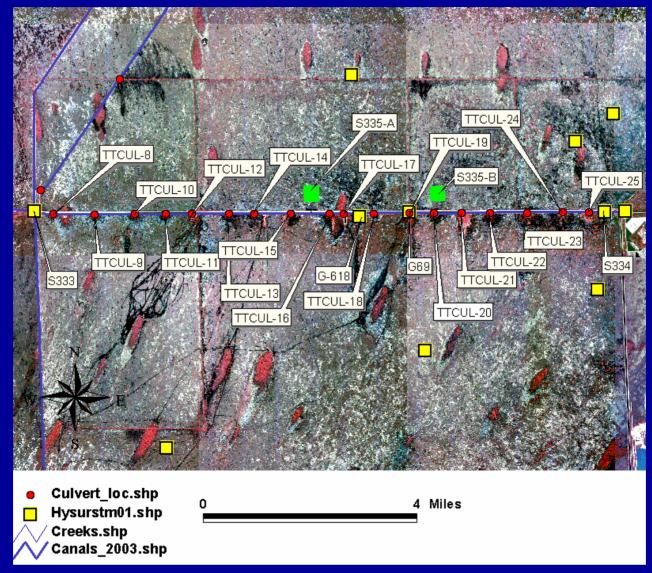
Dewey Worth, Dir. Southern Everglades Restoration Planning Division

Everglades Restoration Resource Area





Tamiami Trail is a filled roadbed cutting across the heart of the **Everglades** and obstructs water movement and wildlife



Water Flows along the Tamiami canal and enters ENP through a series of small culverts

East Tamiami Trail Culverts

(Between Structures S333 and S334)

Flows through the structure are limited by size of the structure and dense vegetation downstream. A bridge span offers a broader area to allow water to move into the park following natural flowways (areas of less resistance to flow)



Culvert Under Tamiami Road into ENP

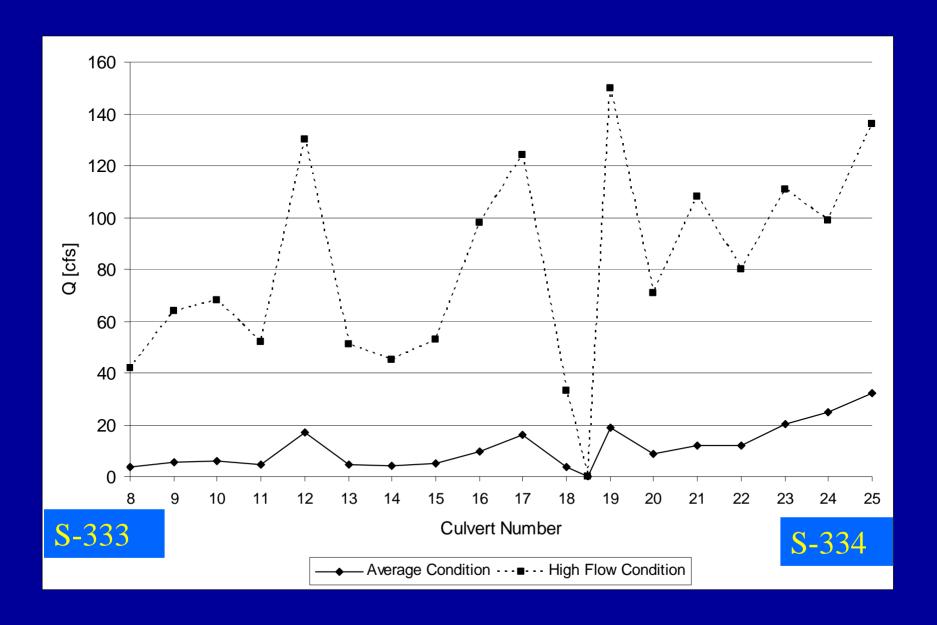




TTCUL-8 Culvert Structure Looking SW

East Tamiami Trail Culvert Flow Distribution

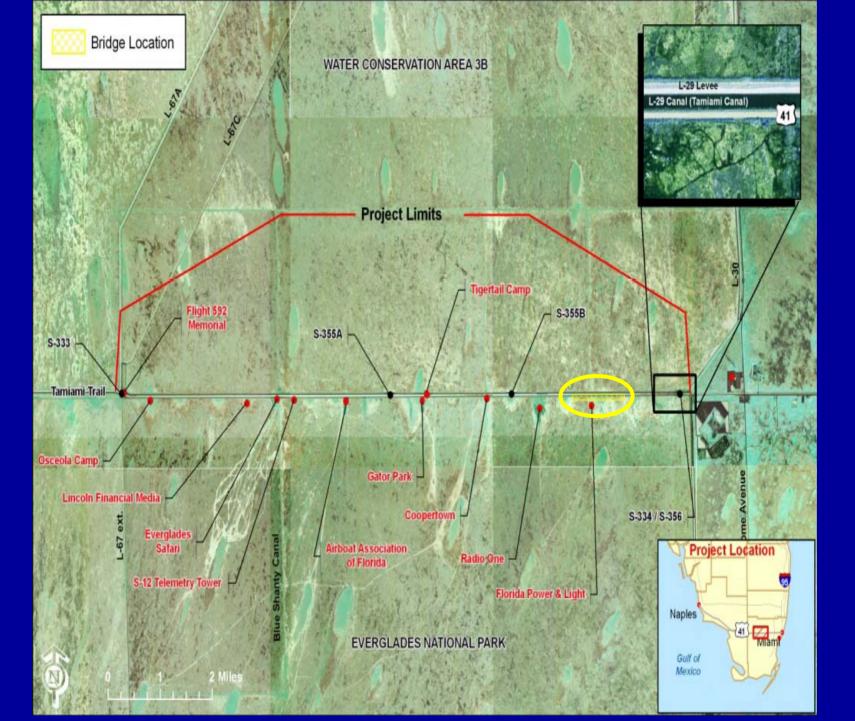
USGS Data (Oct 2000 to Sept 2001)



Modified Water Deliveries Project Tamiami Trail (TT) Design Conditions

Improve Flow to Everglades National Park

- Replace 1-Mile of Road with a Bridge
- Increase Operating Water Levels in TT Borrow Canal from 7.5 ft to 8.5 ft (allows more water flow through existing culverts and under new bridge section)
- Raise Road Surface on 30% of TT to Prevent Flooding Road Base from Higher Water Levels
- Adjust Operations to Deliver 55% of Water Through Eastern TT and 45% to Western TT



Modified Water Deliveries Project Amendment-2 for Tamiami Trail (TT)

Federal Obligations

- Design and Construct 1-Mile Bridge, Remove Road
- Improve Road Surface on 30% of TT
- Construct Conveyance Under Bridge Connecting TT Borrow Canal (L-29 canal) with Everglades National Park
- Acquire Project Lands and Easements as Needed
- Pay 75% of costs for Operation and Maintenance
 - ➤ Bridge Maintenance Agreement with Florida
 Department Transportation

Modified Water Deliveries Project Amendment-2 for Tamiami Trail (TT)

Local Sponsor Obligations

- Maintain Flow Conveyance Under the Bridge
- Pay 25% of costs for Operation and Maintenance for Flow Conveyance Under the Bridge (\$30K/yr)
- Provide approximately 29,000 cu yds of spoil material for construction

Modified Water Deliveries Project Amendment-2 for Tamiami Trail (TT)

Construction Betterment Memorandum

 Modify bridge design and construct enhancements for FPL future power line relocation – 100% SFWMD Costs

Added Design Costs \$11, 589.00

> Added Construction Costs \$ 145,920.00

Total \$ 157,509.00

• SFWMD & Florida Power and Light Memorandum to reimburse costs of betterment

Amendment-2 for Tamiami Trail (TT)

Required Supporting Agreements

- Temporary Construction Easements (USACE)
 - > Florida Department Transportation
 - National Park Service
 - > Florida Power and Light
- Permanent Easements and/or Land Exchange (USACE – NPS – FPL - FDOT)
- Sediment and Exotic Vegetation Maintenance Agreement* (SFWMD USACE)
- Water Control Plan for Operations* (USACE-SFWMD-NPS)

Modified Water Deliveries Project

Amendment-2 for Tamiami Trail Bridge

RESOLUTION NO. 2008

A RESOLUTION OF THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT TO AUTHORIZE ENTERING INTO A SECOND AMENDMENT TO THE PROJECT COOPERATION AGREEMENT BETWEEN THE U. S. ARMY CORPS OF ENGINEERS AND THE SOUTH FLORIDA WATER MANGEMENT DISTRICT FOR MODIFICATION OF THE CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL PROJECT TO IMPROVE WATER DELIVERIES INTO EVERGLADES NATIONAL PARK FOR THE PURPOSE OF IMPLEMENTING THE TAMIAMI TRAIL FEATURES; PROVIDING AN EFFECTIVE DATE. (CONTRACT NUMBER C-12903-A02 / 3600000054-A02)

Memorandum Of Agreement Between SFWMD and USACE for a Betterment to

Modified Water Deliveries Project

RESOLUTION NO. 2008

A RESOLUTION OF THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT TO AUTHORIZE ENTERING INTO A MEMORANDUM OF AGREEMENT WITH THE U.S. ARMY CORPS OF ENGINEERS WITH RESPECT TO A BETTERMENT FOR MODIFICATION OF THE CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL PROJECT TO IMPROVE WATER DELIVERIES INTO EVERGLADES NATIONAL PARK FOR THE PURPOSE OF IMPLEMENTING THE TAMIAMI TRAIL FEATURES; AND AUTHORIZE A BUDGET TRANSFER IN THE AMOUNT OF \$157,509 FROM DEDICATED FUNDS (CERP AD VALOREM) FROM THE SOUTHWEST FLORIDA FEASIBILITY STUDY PROJECT TO THE MODIFIED WATERS PROJECT; PROVIDING AN EFFECTIVE DATE. (CONTRACT NUMBER 4600001439)